

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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1. (Currently amended) A contact sensor, comprising:
an impact detection element movably connected to a housing part,
a light source coupled to the housing part defining an emission surface, and
a receiving element coupled to the impact detection element defining a receiving
surface arranged opposite the emission surface of the light source.
2. (Original) The contact sensor according to claim 1, wherein the receiving
surface and emission surface are of substantially the same size.
3. (Currently amended) The contact sensor according to claim 1, wherein the
light source comprises at least one light-guiding fiber, ~~whereby~~ and the emission surface is
defined by the end of the light-guiding fiber.
4. (Original) The contact sensor according to claim 1, further comprising an
intensity sensor, which is associated with the receiving surface and which generates an
electrical signal.
5. (Original) The contact sensor according to claim 1, wherein the receiving
surface is a reflective surface that directs the light emitted from the emission surface onto at
least one further light-guiding fiber, connected to an intensity sensor, whose end defines a
further receiving surface.
6. (Currently amended) The contact sensor according to claim 1, wherein the
impact detection element is movably connected to the housing part via at least one elastically
bendable rod.
7. (Original) The contact sensor according to claim 6, wherein the elastically
bendable rod is connected to the housing part via a baseplate.

8. (Currently Amended) The contact sensor according to claim 6 7, wherein the impact detection element, the baseplate, the rod and the receiving element are manufactured together in a single piece.

9. (Original) The contact sensor according to claim 4, wherein the electrical signal serves to control a movement operation.

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10. (Currently amended) An apparatus for protecting a protruding component comprising:

a housing part to which the protruding component is connected,
an impact detection element movably connected to the housing part,
a light source coupled to the housing part defining an emission surface, and
a receiving element coupled to the impact detection element defining a receiving surface arranged opposite the emission surface of the light source.

11. (Original) The apparatus according to claim 10, wherein the receiving surface and emission surface are of substantially the same size.

12. (Currently amended) The apparatus according to claim 10, wherein the impact detection element surrounds at least partially the protruding component to be protected.

13. (Currently amended) The apparatus according to claim 10, wherein the light source comprises at least one light-guiding fiber, ~~whereby~~ and the emission surface is defined by the end of the light-guiding fiber.

14. (Original) The apparatus according to claim 10, further comprising an intensity sensor, which is associated with the receiving surface.

15. (Original) The apparatus according to claim 10, wherein the receiving surface is a reflective surface that directs the light emitted from the emission surface onto at

least one further light-guiding fiber, connected to an intensity sensor, whose end defines a further receiving surface.

16. (Original) The apparatus according to claim 10, wherein the impact detection element is movably connected to the housing part via at least one elastically bendable rod.

17. (Currently Amended) The apparatus according to claim 14, wherein the intensity sensor generates an electrical signal ~~proportional~~ corresponding to the power level of the light striking the ~~emission~~ receiving surface, which serves for the open-loop or closed-loop control or monitoring of a movement operation.

18. (Currently amended) A high-precision measurement machine comprising: a housing part to support an ~~which a~~ optical component ~~is connected~~, an impact detection element movably connected to the housing part, a light source coupled to the housing part defining an emission surface, and a receiving element coupled to the impact detection element defining a receiving surface arranged opposite the emission surface of the light source.

19. (Currently Amended) The high-precision measurement machine according to claim 18, further comprising:

an intensity sensor, which is associated with the receiving surface and which generates an electrical signal ~~proportional~~ corresponding to the power level of the light striking the ~~emission~~ receiving surface.

20. (Original) The high-precision measurement machine according to claim 19, further comprising:

a control unit, which receives the electrical signal and which controls a movement operation.

21. (New) The contact sensor according to claim 1, wherein a light path between the receiving surface and the emission surface is smaller than a cross section of the emission surface.

22. (New) The apparatus according to claim 10, wherein a light path between the receiving surface and the emission surface is smaller than a cross section of the emission surface.

23. (New) The high-precision measurement machine according to claim 18, wherein a light path between the receiving surface and the emission surface is smaller than a cross section of the emission surface.

24. (New) The contact sensor according to claim 1, wherein during a non-collision, a light path between the receiving surface and the emission surface is not interrupted and wherein during a collision, a light path between the receiving surface and the emission surface is interrupted.

25. (New) The apparatus according to claim 10, wherein during a non-collision, a light path between the receiving surface and the emission surface is not interrupted and wherein during a collision, a light path between the receiving surface and the emission surface is interrupted.

26. (New) The high-precision measurement machine according to claim 18, wherein during a non-collision, a light path between the receiving surface and the emission surface is not interrupted and wherein during a collision, a light path between the receiving surface and the emission surface is interrupted.
